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Appl. No. 09/998,512 Arndt. dated August 24, 2004 Reply to Office Action of June 4, 2004

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A process for separating oxygenated hydrocarbon from an olefin composition comprising:

contacting an oxygenate with a small pore molecular sieve catalyst to form an olefin composition, wherein the olefin composition comprises olefin comprising at least 20 wt% ethylene and propylene on a water containing basis, water and oxygenated hydrocarbon;

contacting the olefin composition with a quench fluid to cool the olefin composition and form a liquid water containing stream and an olefin containing vapor stream, wherein the water containing stream comprises at least 1 wt % oxygenated hydrocarbon;

scparating the water containing stream from the vapor stream; compressing the vapor stream;

separating an olefin product stream and an oxygenated hydrocarbon containing stream from the compressed vapor stream by contacting the compressed vapor stream with a wash medium selected from the group comprising water and/or methanol;

separating the olefin product stream into an ethylene containing stream and a propylene containing stream and recovering the separated streams;

combining the water containing stream and the oxygenated hydrocarbon containing stream; and

recovering oxygenated hydrocarbon product from the combined water containing stream and liquid oxygenated hydrocarbon containing stream.

- 2. Canceled.
- (Original) The process of elaim 2 claim 1, further comprising polymerizing the 3. ethylene containing stream.

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- 4. (Original) The process of elaim 2 claim 1, further comprising polymerizing the propylene containing stream.
- 5. (Original) The process of claim 1, wherein the water containing stream and the oxygenated hydrocarbon containing stream are first combined and then separated in a separator.
- 6. (Original) The process of claim 1, wherein the water containing stream and the oxygenated hydrocarbon containing stream are both combined and separated within a separator.
- 7. (Original) The process of claim 1, wherein the vapor stream is compressed at a pressure of at least 30 psia.
- 8. (Original) The process of claim 1, wherein the oxygenated hydrocarbon product contains not greater than 50 wt % water.
- 9. (Original) The process of claim 8, wherein the oxygenated hydrocarbon product contains not greater than 40 wt % water.
- 10. (Original) The process of claim 9, wherein the oxygenated hydrocarbon product contains not greater than 30 wt % water.
- 11. (Original) The process of claim 10, wherein the oxygenated hydrocarbon product contains not greater than 25 wt % water.

12-15. Canceled.

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